

REVISED PRICING ASSUMPTIONS
SEGMENT II - ARMOR RANGES

The following is a description of standard range requirements for use in preparation of proposals.

Every Range Type:

For evaluation purposes, Wichita, Kansas is being specified as a typical site for determination of the availability of solar energy. The following discussion reflects data from the National Solar Radiation Data Base (NSRDB, <http://rredc.nrel.gov/solar/>), and is applicable for those regeneration devices utilizing solar energy.

The NSRDB data indicates that for the years 1981-1990, the January with the least amount of available solar energy was 1983. The hourly data (http://rredc.nrel.gov/solar/old_data/nsrdb/hourly/1983/03928_83.txt) was combined to produce daily values which are provided in the attached chart, along with a graph of the values for horizontal plates and plates inclined at latitude plus 15 degrees. The conversion factors for the inclined plates were approximated using data from the 30 Year Average of Monthly Solar Radiation 1961-1990 (http://rredc.nrel.gov/solar/old_data/nsrdb/redbook/sum2/03928.txt) by dividing the average minimum "latitude +15" values for January and February by the corresponding minimum zero degree values. (January: $3.1 / 2.0 = 1.55$; February: $3.7 / 2.8 = 1.32$) Hourly and/or daily data should be used as necessary to size solar panels.

Equipment must have sufficient capacity to operate on a continuous basis at the usage rate specified in the Performance Description during periods of minimal solar energy, such as 16 January through 3 February 1983.

Radio Frequency

The USG Shall provides: _Tower, firing positions, and target pits IAW COE Spec (No power or data cables provided)
Some obstruction possible, clear view to pits from tower will not always be available
Temperature Range - IAW PD
Operational Requirements - IAW PD - However, Operational requirements can decrease up to 50% when temperature is less than 0 degrees F.

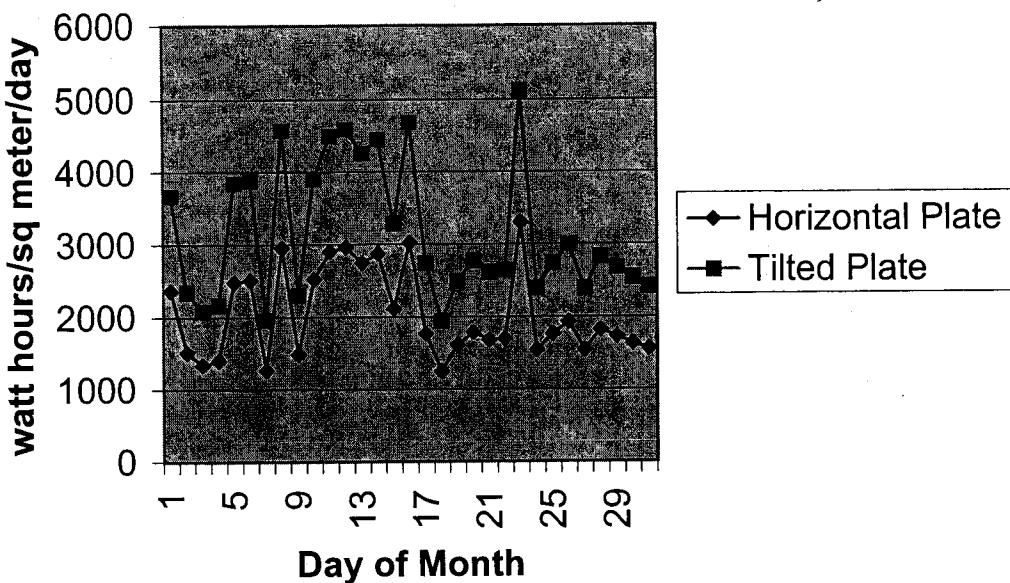
Hardwired

The USG shall provide: Tower, firing positions, target pits, power/data communications etc IAW COE standard
Some obstruction possible, clear view to pits from tower will not always be available
Temperature Range - IAW PD
Operational Requirements - IAW PD

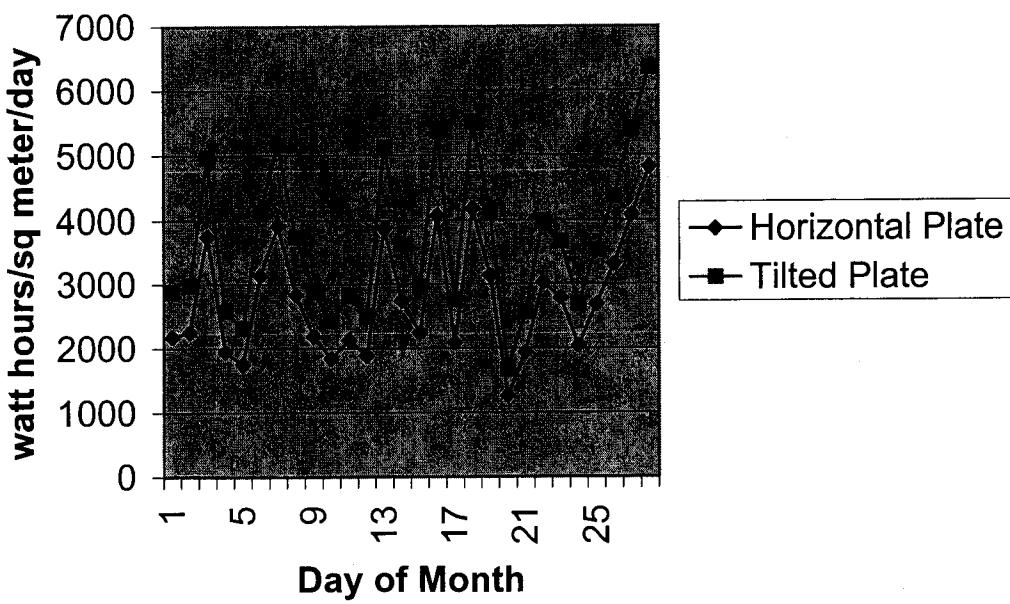
Light Weight Portable

Some obstruction possible, clear view to targets will not always be available
Temperature Range - IAW PD
Operational Requirements - IAW PD - However, Operational requirements can decrease up to 50% when temperature is less than 0 degrees F.

January 1983



February 1983



Data for Wichita, KS from <http://rredc.nrel.gov/solar>

Year	Month	Day	Total Solar	Solar	
			Watt m/day	Mult for deg	power at Lat +15 deg
83	1	1	2365	1.55	3666
83	1	2	1512	1.55	2344
83	1	3	1344	1.55	2083
83	1	4	1399	1.55	2168
83	1	5	2480	1.55	3844
83	1	6	2507	1.55	3886
83	1	7	1267	1.55	1964
83	1	8	2953	1.55	4577
83	1	9	1486	1.55	2303
83	1	10	2518	1.55	3903
83	1	11	2902	1.55	4498
83	1	12	2962	1.55	4591
83	1	13	2748	1.55	4259
83	1	14	2871	1.55	4450
83	1	15	2115	1.55	3278
83	1	16	3023	1.55	4686
83	1	17	1765	1.55	2736
83	1	18	1253	1.55	1942
83	1	19	1607	1.55	2491
83	1	20	1787	1.55	2770
83	1	21	1682	1.55	2607
83	1	22	1699	1.55	2633
83	1	23	3303	1.55	5120
83	1	24	1542	1.55	2390
83	1	25	1766	1.55	2737
83	1	26	1933	1.55	2996
83	1	27	1544	1.55	2393
83	1	28	1824	1.55	2827
83	1	29	1727	1.55	2677
83	1	30	1636	1.55	2536
83	1	31	1558	1.55	2415
83	2	1	2179	1.32	2876
83	2	2	2253	1.32	2974
83	2	3	3757	1.32	4959
83	2	4	1954	1.32	2579
83	2	5	1756	1.32	2318
83	2	6	3138	1.32	4142
83	2	7	3919	1.32	5173
83	2	8	2838	1.32	3746
83	2	9	2188	1.32	2888
83	2	10	1842	1.32	2431
83	2	11	2134	1.32	2817
83	2	12	1889	1.32	2493
83	2	13	3883	1.32	5126
83	2	14	2745	1.32	3623

83	2	15	2246	1.32	2965
83	2	16	4078	1.32	5383
83	2	17	2093	1.32	2763
83	2	18	4181	1.32	5519
83	2	19	3137	1.32	4141
83	2	20	1265	1.32	1670
83	2	21	1942	1.32	2563
83	2	22	3023	1.32	3990
83	2	23	2787	1.32	3679
83	2	24	2042	1.32	2695
83	2	25	2683	1.32	3542
83	2	26	3310	1.32	4369
83	2	27	4083	1.32	5390
83	2	28	4819	1.32	6361